

County of Loudoun
Department of Planning
MEMORANDUM

DATE: May 7, 2007

TO: Leesburg Annexation Area Development Policies (AADP) Committee

FROM: Susan Berry Hill, Program Manager

SUBJECT: Countywide Transportation Plan (CTP) Update - Crosstrail Boulevard Analysis

This memo and attachment serves to provide more information to the AADP Committee regarding item #3 on the May 10, 2007 agenda. On April 30, 2007, the consultant working with the County on the update to the Countywide Transportation Plan (CTP) provided a presentation on their transportation network analysis. Included in the analysis was Leesburg's request to reinstate a segment of Crosstrail Boulevard, from Route 621 to Route 15. Excerpts from that presentation relating to Crosstrail Boulevard have been provided as packet materials for the AADP Committee.

The analysis assumed a 4-lane facility. Two scenarios were tested: Crosstrail connecting directly to Route 704 and Crosstrail connecting to Route 15 at a point south of Route 704. The general results of the analysis showed:

Aligned with Route 704:

- Crosstrail Blvd. carried 15,000 average daily trips (ADT).
- The total 704/Crosstrail alignment induced less than 2000 ADT on Route 704
- Relieves some traffic of Route 15 traffic

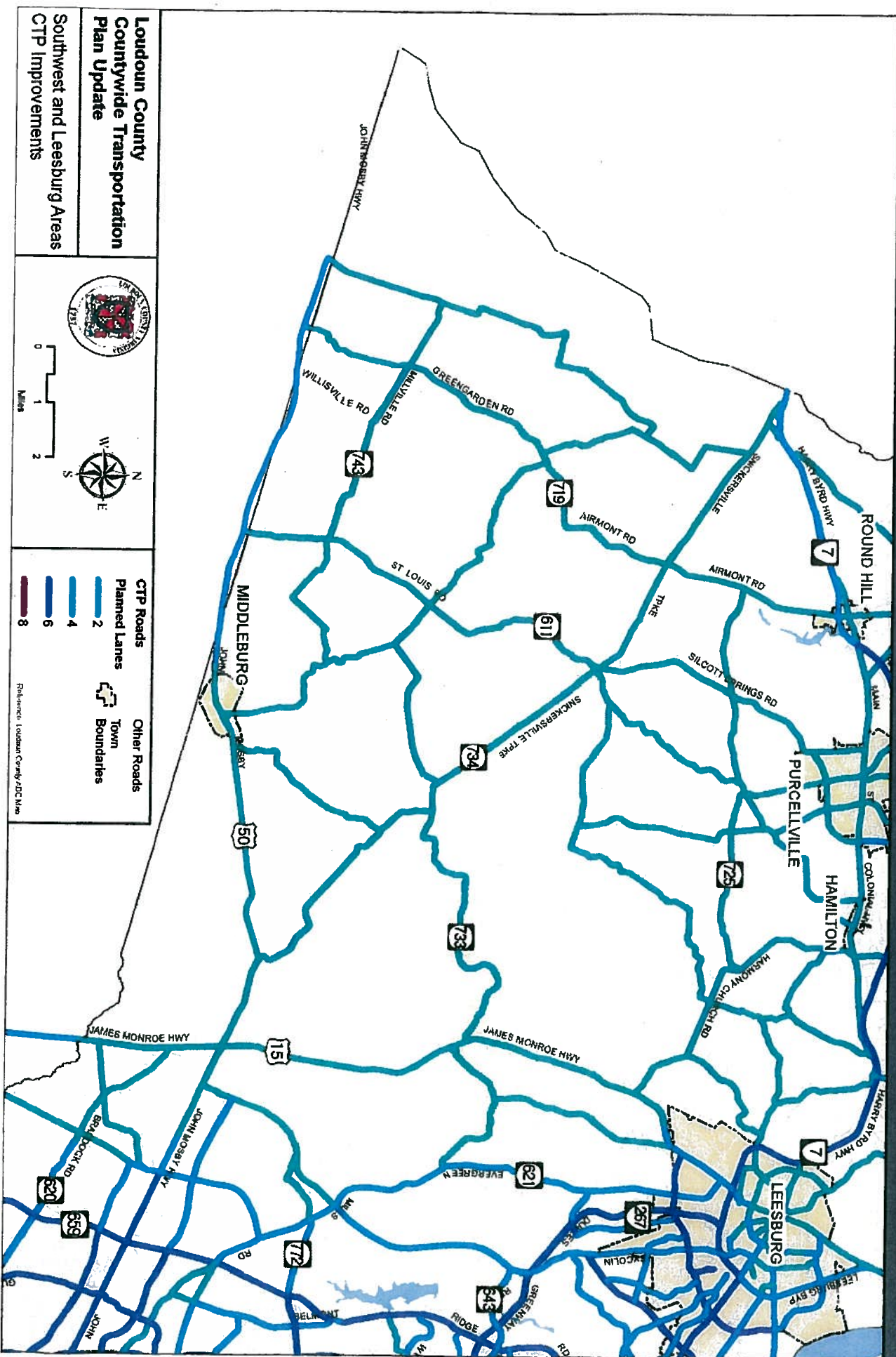
Not aligned with Route 704:

- Crosstrail Blvd. carried 8,000 ADT
- Additional intersection with Route 15 results in degradation of Level of Service on Route 15 (LOS A-C to D)

Staff from the Office of Transportation Services (OTS) will be at the meeting on May 10, 2007 to further explain the analysis.

ATTACHMENT 2

Southwest Loudoun/Leesburg – CTP Roads



Loudoun County Countywide Transportation Plan Update

CTP Baseline 2030
Level of Service

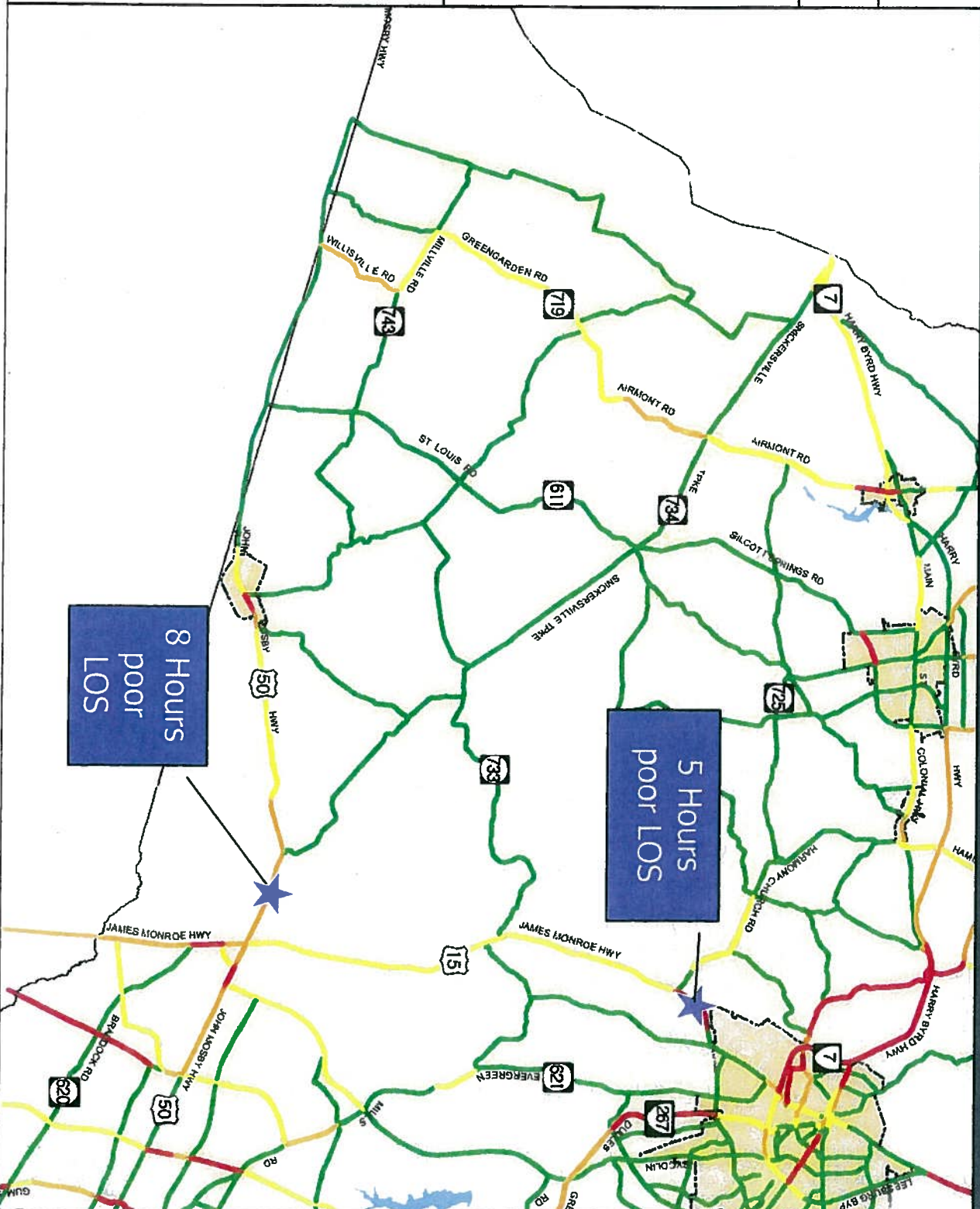
Legend

CTP Baseline LOS

A-C D E F

Other Roads

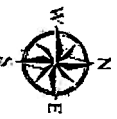
Town
Boundaries



Alternative 1 Improvements

Loudoun County Countywide Transportation Plan Update

Alternative 1: 2030
Ultimate Improvements

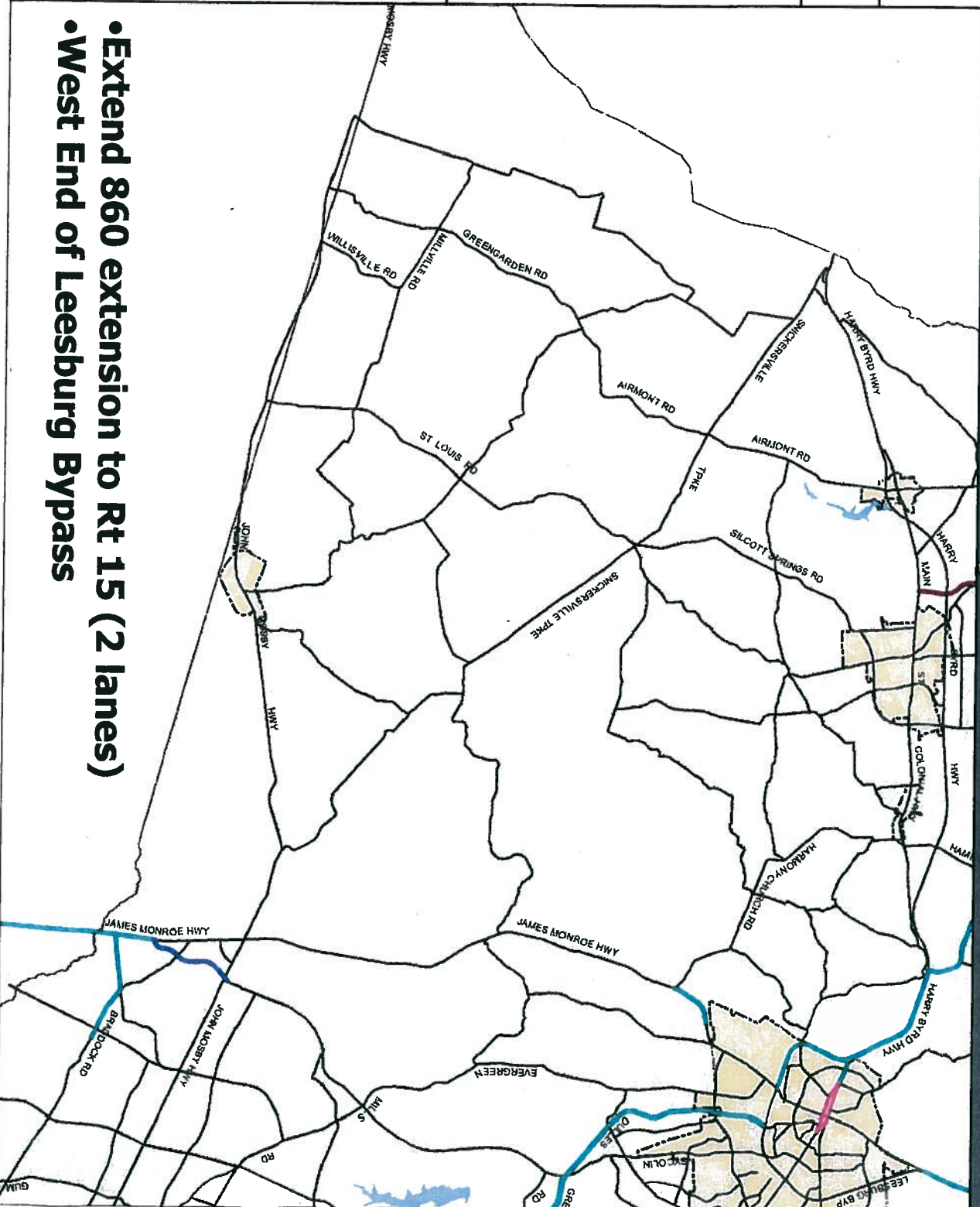


Legend

Alternative 1 Improvements

- Add 2 Lanes
- New 2 Lane Road
- New 4 Lane Road
- One-Way Pair
- CTP Roads
- Other Roads
- Town
- Boundaries

HAVERHILL COUNTY, VIRGINIA



- Extend 860 extension to Rt 15 (2 lanes)
- West End of Leesburg Bypass

Alternative 1 Results

Loudoun County Countywide Transportation Plan Update

Alternative 1: 2030
Level of Service



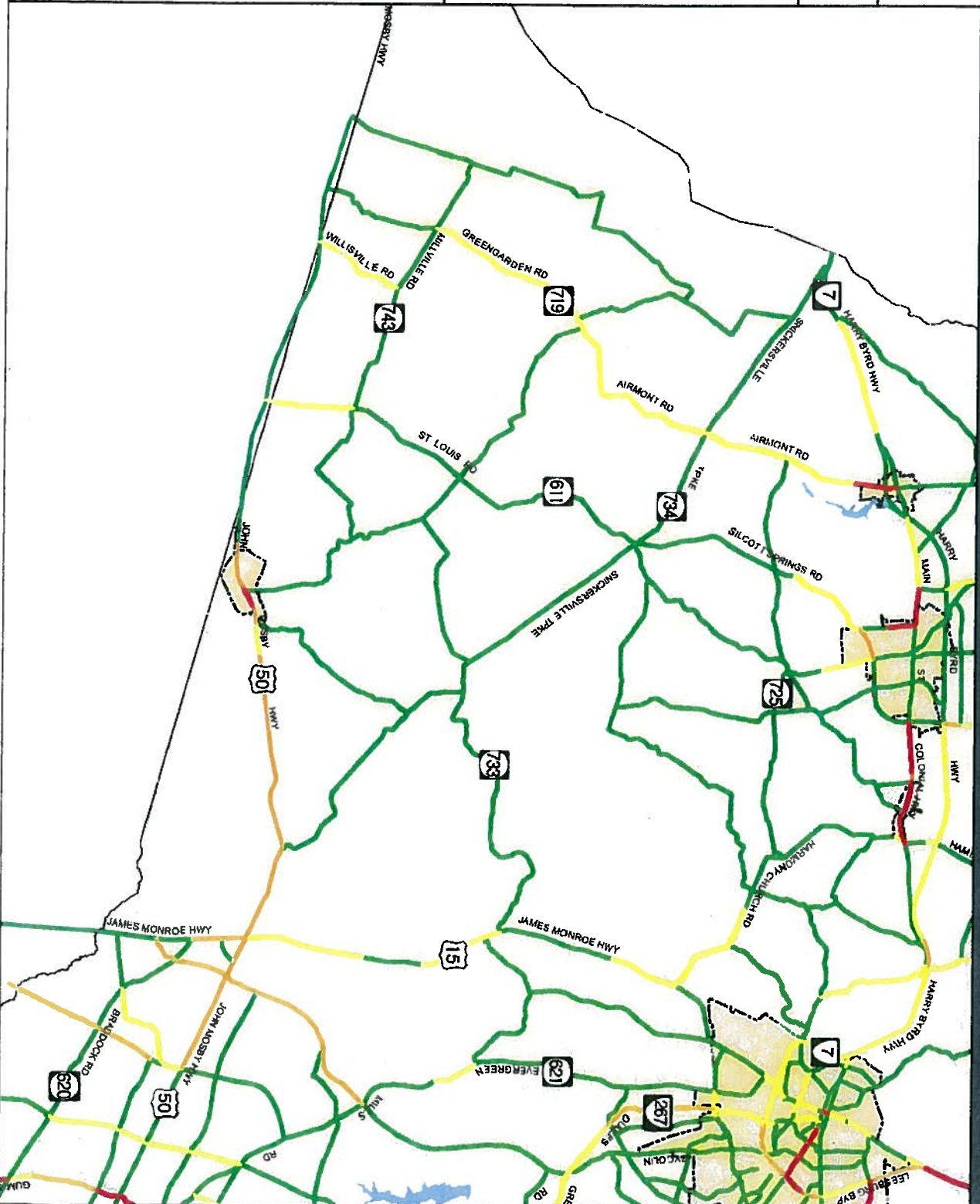
Legend

Alternative 1 LOS

A-C D E F

Other Roads

Town
Boundaries



Alternative 2 Improvements

Loudoun County Countywide Transportation Plan Update

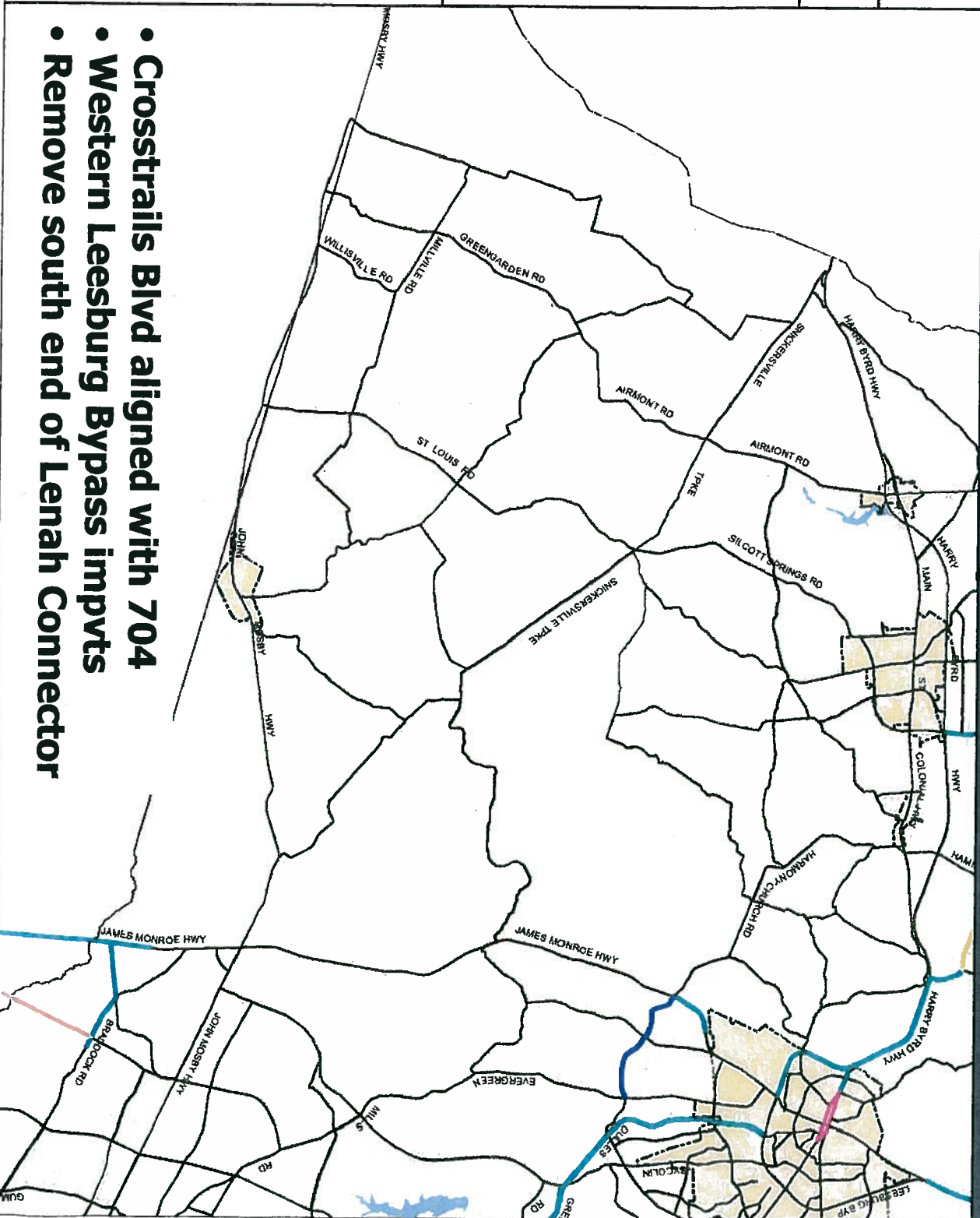
Alternative 2: 2030
Ultimate Improvements



Legend

Alternative 2 Improvements

- Add 2 Lanes
- New 4 Lane Road
- One-Way Pair
- Traffic Calming
- Remove Road
- CTP Roads
- Other Roads
- Town Boundaries



- Crosstrails Blvd aligned with 704
- Western Leesburg Bypass impmts
- Remove south end of Lenah Connector

Alternative 2 Results

Loudoun County Countywide Transportation Plan Update

Alternative 2: 2030
Level of Service



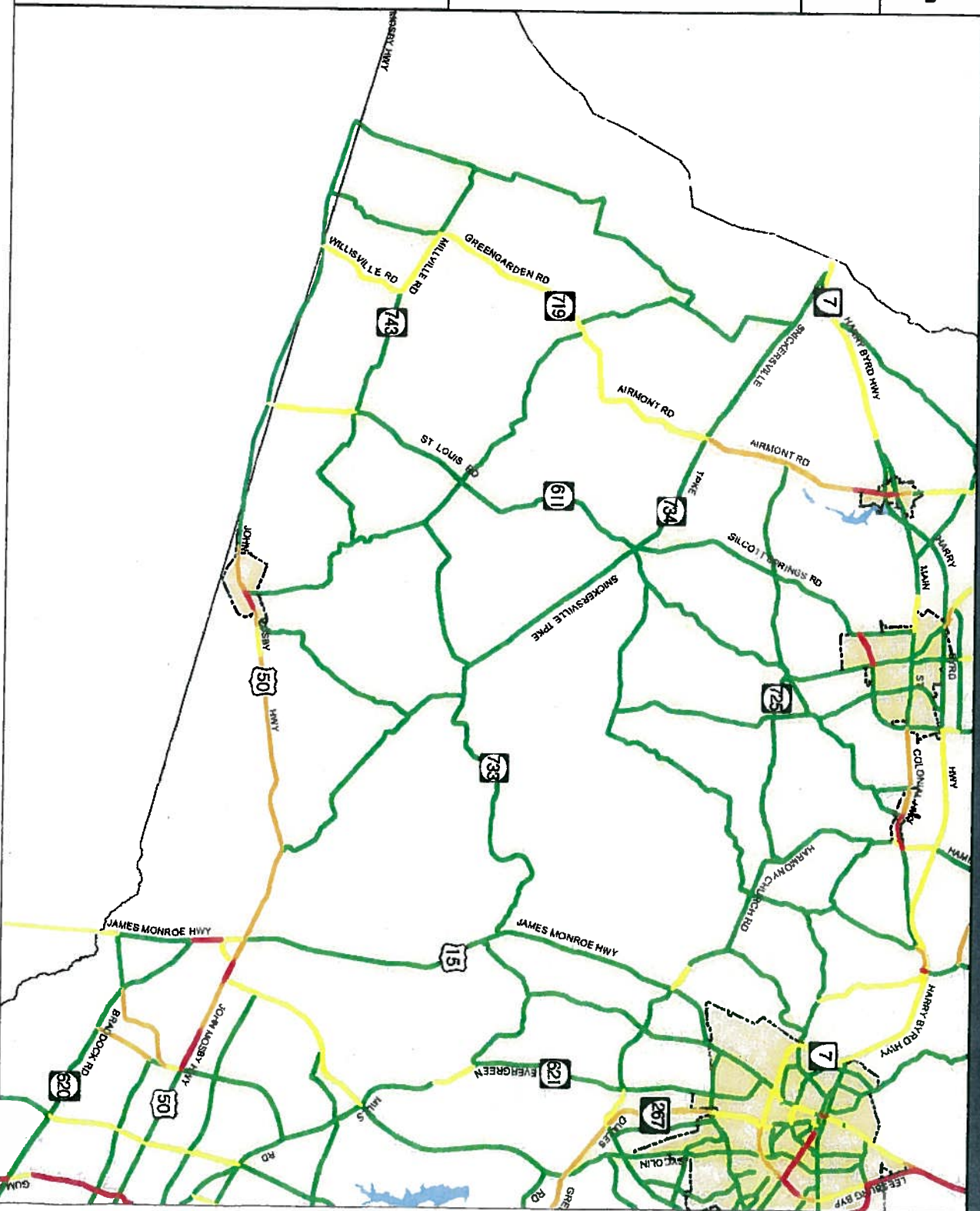
Legend

Alternative 2 LOS

A-C D E F

Other Roads

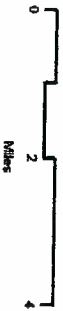
Town
Boundaries



Alternative 3 Improvements

Loudoun County Countywide Transportation Plan Update

Alternative 3: 2030
Ultimate Improvements

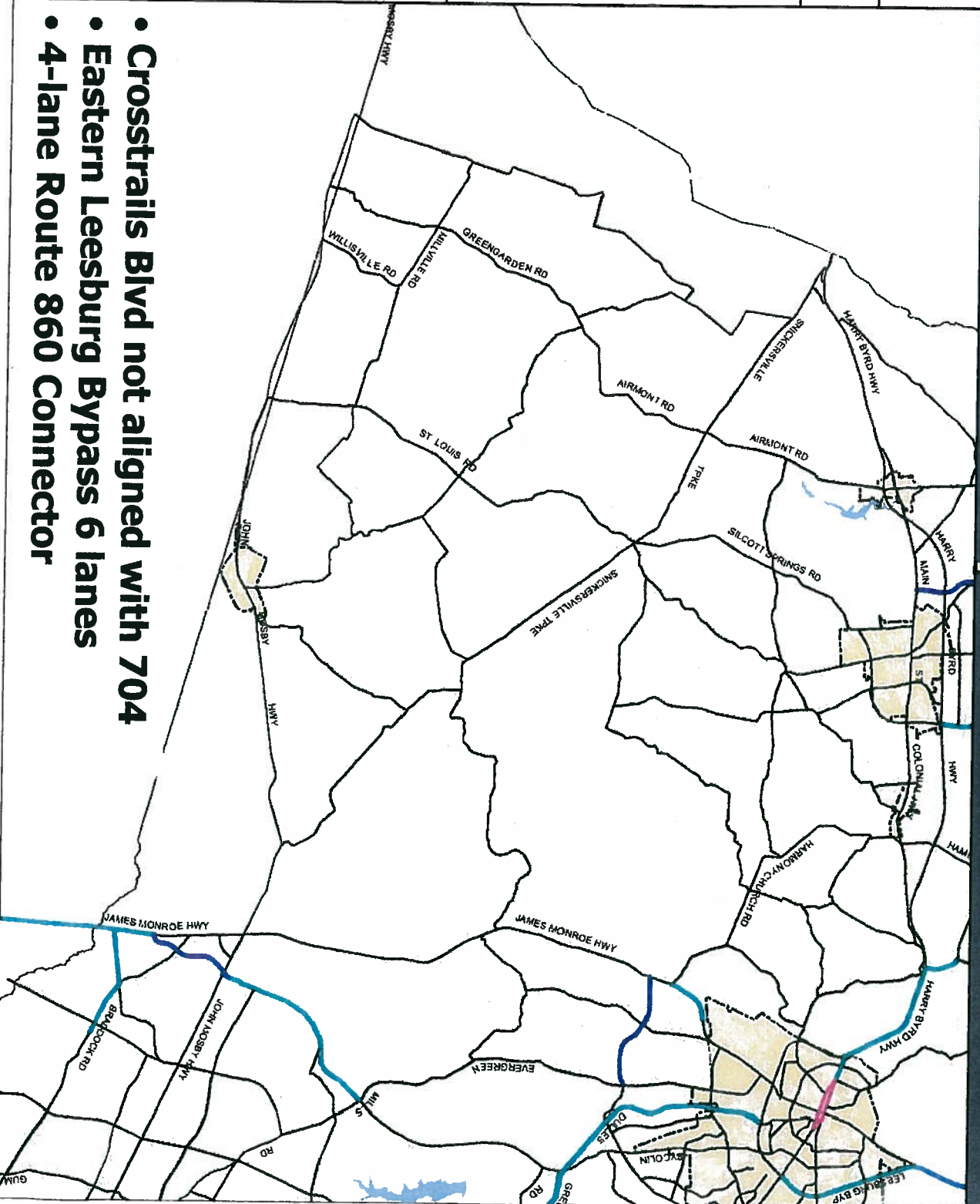


Legend

Alternative 3 Improvements

- Add 2 Lanes
- Add 4 Lanes
- New 4 Lane Road
- One-Way Pair
- Traffic Calming
- CTP Roads
- Other Roads
- Town
- Boundaries

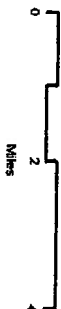
- Crosstrails Blvd not aligned with 704
- Eastern Leesburg Bypass 6 lanes
- 4-lane Route 860 Connector



Alternative 3 Results

Loudoun County Countywide Transportation Plan Update

Alternative 3: 2030
Level of Service



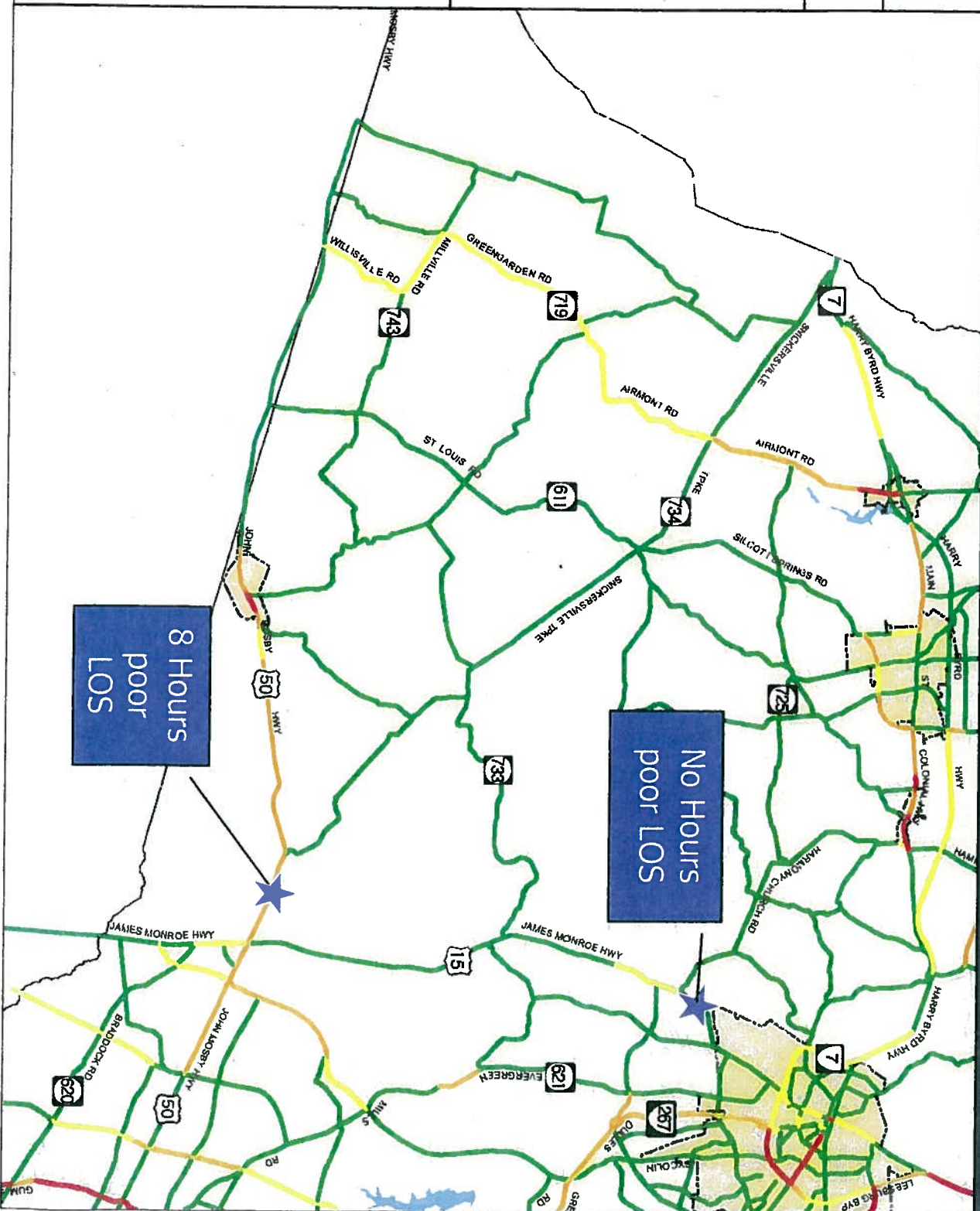
Legend

Alternative 3 LOS

A-C D E F

Other Roads

Town
Boundaries



Other Observations

▶ Crosstrails Blvd Alternatives

- Induce less than 2,000 ADT on Route 704
- Carries 15,000 ADT when aligned with Rt 704
- Carries 8,000 ADT when not aligned
- Relieves some Rt 15 traffic – more so when aligned with Rt 704.

▶ Gilberts Corner and Route 860 Extension

- Rt 860 Extension relieves Gilbert's corner southern approach and westbound Rt 50
- 4-lane version substantially more effective